# My first document

gendloop*

July 2024

You have now added a title, author and date to your first LaTeX document Hello gendloop, this is your first document. This is a simple example, with no extra parameters or packages included.

Bold: **Bold** Italics: *Italics* Underline: Underline

Some of the greatest *discoveries* in science were made by accident

*Some of the greatest* discoveries *in science were made by accident*

**Some of the greatest *discoveries* in science were made by accident**

*gg

Figure 1: A nice picture

Figure 2: A nice picture 2

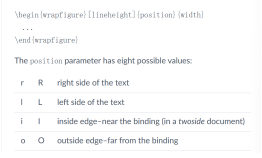
As you can see in figure 1, the function grows near the origin. This example is on page 2.

(a) Caption1 (b) Caption2

Figure 3: Caption for this figure with two images

Praesent in sapien. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Duis fringilla tristique neque. Sed interdum libero ut metus. Pellentesque placerat.

Praesent in sapien. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Duis fringilla tristique


\begin{wrapfigure}{l}{lineheight}[position]{width}
...
\end{wrapfigure}

The position parameter has eight possible values:

| | | |
|---|---|---|
| r | R | right side of the text |
| l | L | left side of the text |
| i | I | inside edge–near the binding (in a *twoside* document) |
| o | O | outside edge–far from the binding |

neque. Sed interdum libero ut metus. Pellentesque placerat.

- apple
- banana

1. apple
2. banana

1. first
   - apple
   - pear
2. second
   (a) apple
   (b) pear

In physics, the mass-energy equivalence is stated by the wquation $E = mc^2$, discovered in 1905 by Albert Einstein.
$E = mc^2$
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$$E = mc^2$$

, discovered in 1905 by Albert Einstein.

$$E = m^2 \tag{1}$$

$$E = m^2$$

Subscripts in math mode are written as $a_b$ and superscripts are written as $a^b$. These can be combined and nested to write expressions such as

$$T^{i_1 i_2 \ldots i_p}_{j_1 j_2 \ldots j_q} = T(x^{i_1}, \ldots, x^{i_p}, e_{j_1}, \ldots, e_{j_q})$$

We write integrals using $\int$ and fractions using $\frac{a}{b}$. Limits are placed on integrals using superscripts and subscripts:

$$\int_0^1 \frac{dx}{e^x} = \frac{e-1}{e}$$

Lower case Greek letters are written as $\omega$ $\delta$ etc. while upper case Greek letters are written as $\Omega$ $\Delta$.

Mathematical operators are prefixed with a backslash as $\sin(\beta)$, $\cos(\alpha)$, $\log(x)$ etc.